

## CATALOG



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Antibodies

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PAb=Polyclonal Antibody and MAb=Monoclonal Antibody

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Factor	Description	Catalog	Type	Size
OCAM	Mouse OCAM Affinity Purified Polyclonal Ab	<a href="#">AF778</a>	Goat IgG	100 UG
OCAM	Mouse OCAM Biotinylated Affinity Purified PAb	<a href="#">BAF778</a>	Goat IgG	50 UG
OCAM	Mouse OCAM MAb (Clone 125101)	<a href="#">MAB778</a>	Rat IgG2A	500 UG
Oligodendrocyte Marker O1	Oligodendrocyte Marker O1 MAb (Clone O1)	<a href="#">MAB1327</a>	Mouse IgM	50 UG
Oligodendrocyte Marker O4	Oligodendrocyte Marker O4 MAb (Clone O4)	<a href="#">MAB1326</a>	Mouse IgM	50 UG
Omi	Human/Mouse/Rat HtrA2/Omi Affinity Purified Polyclonal Ab	<a href="#">AF1458</a>	Rabbit IgG	100 UG
Oncostatin M	Mouse Oncostatin M (OSM) MAb (Clone 157210)	<a href="#">MAB495</a>	Rat IgG2A	500 UG
Orexin A	Human/Mouse/Rat Orexin A Biotinylated MAb (Clone 97505)	<a href="#">BAM763</a>	Mouse IgG1	250 UG
Orexin A	Human/Mouse/Rat Orexin A MAb (Clone 97505)	<a href="#">MAB763</a>	Mouse IgG1	500 UG
Orexin B	Human Orexin B MAb (Clone 145202)	<a href="#">MAB734</a>	Mouse IgG1	500 UG
OSM	Human Oncostatin M (OSM) Affinity Purified Polyclonal Ab	<a href="#">AF-295-NA</a>	Goat IgG	100 UG
OSM	Human Oncostatin M (OSM) Biotinylated Affinity Purified PAb	<a href="#">BAF295</a>	Goat IgG	50 UG
OSM	Human Oncostatin M (OSM) MAb (Clone 17001.31)	<a href="#">MAB295</a>	Mouse IgG2A	500 UG
OSM	Human Oncostatin M (OSM) Polyclonal Ab	<a href="#">AB-295-NA</a>	Goat IgG	1 MG
OSM	Mouse Oncostatin M (OSM) Affinity Purified Polyclonal Ab	<a href="#">AF-495-NA</a>	Goat IgG	100 UG
OSM	Mouse Oncostatin M (OSM) Biotinylated Affinity Purified PAb	<a href="#">BAF495</a>	Goat IgG	50 UG
OSM R beta	Mouse OSM R beta Affinity Purified Polyclonal Ab	<a href="#">AF662</a>	Goat IgG	100 UG
OSM R beta	Mouse OSM R beta Biotinylated Affinity Purified PAb	<a href="#">BAF662</a>	Goat IgG	50 UG
Ost calcin	Human Osteocalcin MAb (Clone 190125)	<a href="#">MAB1419</a>	Mouse IgG1	100 UG
Osteopontin	Human Osteopontin (OPN) Affinity Purified Polyclonal Ab	<a href="#">AF1433</a>	Goat IgG	100 UG
Osteopontin	Human Osteopontin (OPN) MAb (Clone 190312)	<a href="#">MAB1433</a>	Mouse IgG2B	100 UG
Osteopontin	Mouse Osteopontin (OPN) Affinity Purified Polyclonal Ab	<a href="#">AF808</a>	Goat IgG	100 UG

<b>Osteop ntin</b>	Mous Osteopontin (OPN) Biotinylated Affinity Purifi d PAb	<a href="#"><u>BAF808</u></a>	Goat IgG	50 UG
<b>Osteoproteg rin</b>	Human Osteoprotegerin/TNFRSF11B Affinity Purifi d PAb ( <a href="#"><u>IHC</u></a> )	<a href="#"><u>AF805</u></a>	Goat IgG	100 UG
<b>Osteoprotegerin</b>	Human Osteoprotegerin/TNFRSF11B Biotin Affinity Purified PAb	<a href="#"><u>BAF805</u></a>	Goat IgG	50 UG

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#### ORDERING INFORMATION

Catalog Number: MAB1327

Clone: O1

Lot Number: HWY01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS  
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human, mouse, rat and chicken  
Oligodendrocyte cell surface  
marker O1

Immunogen: White matter of corpus callosum  
from bovine brain

Ig class: mouse IgM

Applications: Immunohistochemistry  
Flow cytometry

#### References

1. Sommer, I. and M. Schachner, 1981, Dev. Biol. **83**:311 - 327.
2. Schachner, M. *et al.*, 1981, Dev. Biol. **83**:328 - 338.
3. Bansal, R. *et al.*, 1989, J. Neurosci. Res. **24**:548 - 557.
4. Sontheimer, H. *et al.*, 1989, Neuron **2**:1135 - 1145.
5. Hardy, R.J. and V.L. Friedrich Jr., 1996, Development **122**:2059 - 2069.
6. Reynolds, R. and R. Hardy, 1997, J. Neurosci. Res. **47**:455 - 470.
7. Ono, K. *et al.*, 1997, J. Neurosci. Res. **48**:212 - 225.
8. Cai, Z. *et al.*, 2001, Brain Res. **898**:126 - 135.
9. O1 surface antigen is a lipid that can be solubilized from the membrane by treatment with ethanol.

## Monoclonal Anti-Oligodendrocyte Marker O1 Antibody

#### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with white matter of corpus callosum from bovine brain.<sup>1</sup> The IgM fraction of the tissue culture supernatant was purified by anti-IgM affinity chromatography.

#### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

#### Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

#### Reconstitution

Reconstitute with sterile PBS. If 50 µL of PBS is used, the antibody concentration will be 1 mg/mL.

#### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

#### Specificity

Oligodendrocytes are myelinating cells in the central nervous system (CNS) that form the myelin sheath of axons to support rapid nerve conduction. The monoclonal antibody O1 reacts with a glycolipid antigen that is expressed on the surface of late oligodendrocyte progenitors. It has been commonly used in conjunction with O4 antibody to define immature oligodendrocyte.<sup>2-7</sup> Progenitors that are O4 antigen-positive and O1 antigen-negative have been shown to differentiate into O1 antigen-positive oligodendrocytes *in vitro*.<sup>8</sup>

#### Applications

**Immunohistochemistry** - This antibody can be used with the appropriate secondary reagents at 1 - 3 µg/mL to detect Oligodendrocyte marker O1 in fixed cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 min., and then blocked with 10% normal donkey serum and 1% BSA in PBS at room temperature for 45 min. After blocking, cells were incubated with diluted primary antibody overnight at 4° C and then with Rodamine Red coupled anti-mouse IgM or other appropriate secondary antibody at room temperature in the dark for an hour. Between each step, cells were washed with PBS + 0.1% BSA. This antibody can also be used in unfixed, shock frozen tissue at the concentration of 5 µg/mL.<sup>9</sup>

**Flow Cytometry** - Dilute this antibody to 0.1 mg/mL and add 5 µL of this solution to 1 - 2.5 x 10<sup>5</sup> cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgM conjugated to a fluorochrome.

**Optimal dilutions should be determined by each laboratory for each application.**

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5/20/03



#### ORDERING INFORMATION

Catalog Number: MAB1326

Clone: O4

Lot Number: HWW01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS  
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human, mouse, rat and chicken  
Oligodendrocyte cell surface  
marker O4

Immunogen: White matter of corpus callosum  
from bovine brain

Ig class: mouse IgM

Applications: Immunohistochemistry  
Flow cytometry

#### References

1. Sommer, I. and M. Schachner, 1981, Dev. Biol. **83**:311 - 327.
2. Schachner, M. *et al.*, 1981, Dev. Biol. **83**:328 - 338.
3. Bansal, R. *et al.*, 1989, J. Neurosci. Res. **24**:548 - 557.
4. Bansal, R. and S.E. Pfeiffer, 1989, Proc. Natl. Acad. Sci. USA **86**:6181 - 6185.
5. Gard, A. *et al.*, 1995, Dev. Biol. **167**:596 - 608.
6. Reynolds, R. and R. Hardy, 1997, J. Neurosci. Res. **47**:455 - 470.
7. Ono, K. *et al.*, 1997, J. Neurosci. Res. **48**:212 - 225.
8. Pang, Y. *et al.*, 2000, J. Neurosci. Res. **62**:510 - 520.
9. Cai, Z. *et al.*, 2001, Brain Res. **898**:126 - 135.
10. O4 surface antigen is a lipid that can be solubilized from the membrane by treatment with ethanol.

## Monoclonal Anti-Oligodendrocyte Marker O4 Antibody

#### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with white matter of corpus callosum from bovine brain.<sup>1</sup> The IgM fraction of the tissue culture supernatant was purified by anti-IgM chromatography.

#### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

#### Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

#### Reconstitution

Reconstitute with sterile PBS. If 50 µL of PBS is used, the antibody concentration will be 1 mg/mL.

#### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

#### Specificity

Oligodendrocytes are myelinating cells in the central nervous system (CNS) that form the myelin sheath of axons to support rapid nerve conduction. The monoclonal antibody O4 reacts with an unidentified antigen that appears on the surface of oligodendrocyte progenitors.<sup>2,3</sup> It has been commonly used as the earliest recognized marker specific for the oligodendroglial lineage.<sup>4-9</sup>

#### Applications

**Immunohistochemistry** - This antibody can be used with the appropriate secondary reagents at 1 - 3 µg/mL to detect Oligodendrocyte marker O4 in fixed cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 min., and then blocked with 10% normal donkey serum and 1% BSA in PBS at room temperature for 45 min. After blocking, cells were incubated with diluted primary antibody overnight at 4° C and then with Rodamine Red coupled anti-mouse IgM or other appropriate secondary antibody at room temperature in the dark for an hour. Between each step, cells were washed with PBS + 0.1% BSA. This antibody can also be used in unfixed, shock frozen tissue at the concentration of 5 µg/mL.<sup>10</sup>

**Flow Cytometry** - Dilute this antibody to 0.1 mg/mL and add 5 µL of this solution to 1 - 2.5 x 10<sup>5</sup> cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgM conjugated to a fluorochrome.

Optimal dilutions should be determined by each laboratory for each application.

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